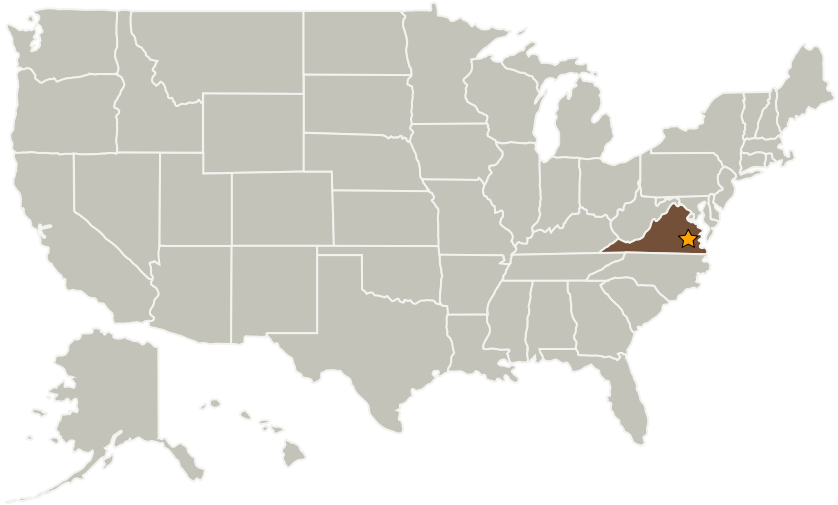
Airport Perimeter Security Advisor, Phase I

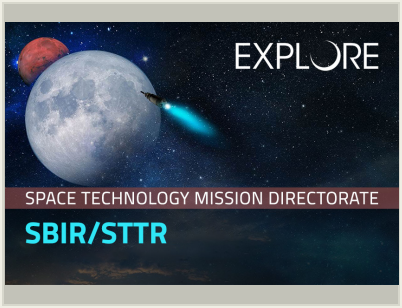
Completed Technology Project (2005 - 2005)

Project Introduction

The aviation system of the United States of America is one of our national treasures. Very few elements of our culture capture the America spirit like aviation. Air transportation plays an absolutely vital role in our economy, and is also a core part of our high standard of living. But this importance of aviation in our society also makes aviation a highly desirable target for terrorists. Secretary of State Colin Powell has said that "no threat is more serious to aviation" than man-portable air defense systems (MANPADS). Although on-board defenses against MANPADS are being developed for commercial aircraft, these systems will not be deployed for many years and will be very expensive. The innovation proposed herein provides an information and decision support system to enhance security monitoring and patrolling around the perimeter of airports ? where the threat of MANPADS attacks is at its highest. This effort will merge the use of advanced airport surface surveillance data with decision support algorithms and security threat and vulnerability assessment methodologies to identify and alert security personnel regarding the airport perimeter areas of highest vulnerability and greatest access to targets of opportunity for MANPADS attacks or other terrorist activities.

Primary U.S. Work Locations and Key Partners





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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Langley Research Center (LaRC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Type	Location
★Langley Research Center(LaRC)	Lead Organization	NASA Center	Hampton, Virginia
Mosaic ATM, Inc.	Supporting Organization	Industry	Leesburg, Virginia

Primary U.S. Work Locations
Virginia

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Chris Brinton

Technology Areas

Primary:

- TX16 Air Traffic Management and Range Tracking Systems
  - TX16.2 Weather/Environment